

SEQUENCE LISTING

<110> Cowsert, Lex M.  
 <120> ANTISENSE MODULATION OF RhoB EXPRESSION  
 <130> RTSP-0104  
 <150> 09/156, 979  
 <151> 1998-09-18  
 <160> 47  
 <210> 1  
 <211> 591  
 <212> DNA  
 <213> Homo sapiens  
 <220>  
 <221> CDS  
 <222> (1)...(591)  
  
 <400> 1  
 atg gcg gcc atc cgc aag aag ctg gtg gtg ggc gac ggc gcg tgt 48  
 Met Ala Ala Ile Arg Lys Lys Leu Val Val Val Gly Asp Gly Ala Cys  
 1 5 10 15  
  
 ggc aag acg tgc ctg ctg atc gtg ttc agt aag gac gag ttc ccc gag 96  
 Gly Lys Thr Cys Leu Leu Ile Val Phe Ser Lys Asp Glu Phe Pro Glu  
 20 25 30  
  
 gtg tac gtg ccc acc gtc ttc gag aac tat gtg gcc gac att gag gtg 144  
 Val Tyr Val Pro Thr Val Phe Glu Asn Tyr Val Ala Asp Ile Glu Val  
 35 40 45  
  
 gac ggc aag cag gtg gag ctg gcg ctg tgg gac acg gcg ggc cag gag 192  
 Asp Gly Lys Gln Val Glu Leu Ala Leu Trp Asp Thr Ala Gly Gln Glu  
 50 55 60  
  
 gac tac gac cgc ctg cgg ccg ctc tcc tac ccg gac acc gac gtc att 240  
 Asp Tyr Asp Arg Leu Arg Pro Leu Ser Tyr Pro Asp Thr Asp Val Ile  
 65 70 75 80  
  
 ctc atg tgc ttc tcg gtg gac agc ccg gac tcg ctg gag aac atc ccc 288  
 Leu Met Cys Phe Ser Val Asp Ser Pro Asp Ser Leu Glu Asn Ile Pro  
 85 90 95  
  
 gag aag tgg gtc ccc gag gtg aag cac ttc tgt ccc aat gtg ccc atc 336  
 Glu Lys Trp Val Pro Glu Val Lys His Phe Cys Pro Asn Val Pro Ile  
 100 105 110  
  
 atc ctg gtg gcc aac aaa aaa gac ctg cgc agc gac gag cat gtc cgc 384  
 Ile Leu Val Ala Asn Lys Lys Asp Leu Arg Ser Asp Glu His Val Arg  
 115 120 125  
  
 aca gag ctg gcc cgc atg aag cag gaa ccc gtg cgc acg gat gac ggc 432  
 Thr Glu Leu Ala Arg Met Lys Gln Glu Pro Val Arg Thr Asp Asp Gly  
 130 135 140  
  
 cgc gcc atg gcc gtg cgc atc caa gcc tac gac tac ctc gag tgc tct 480  
 Arg Ala Met Ala Val Arg Ile Gln Ala Tyr Asp Tyr Leu Glu Cys Ser  
 145 150 155 160

|   |     |
|---|-----|
| gcc aag acc aag gaa ggc gtg cgc gag gtc ttc gag acg gcc acg cgc<br>Ala Lys Thr Lys Glu Gly Val Arg Glu Val Phe Glu Thr Ala Thr Arg<br>165 170 175 | 528 |
| gcc gcg ctg cag aag cgc tac ggc tcc cag aac ggc tgc atc aac tgc<br>Ala Ala Leu Gln Lys Arg Tyr Gly Ser Gln Asn Gly Cys Ile Asn Cys<br>180 185 190 | 576 |
| tgc aag gtg cta tga<br>Cys Lys Val Leu<br>195   | 591 |
| <br><210> 2<br><211> 25<br><212> DNA<br><213> Artificial Sequence   |     |
| <br><220><br><223> Synthetic  |     |
| <br><400> 2<br>tgatcggtt cagtaaggac gagtt   | 25  |
| <br><210> 3<br><211> 18<br><212> DNA<br><213> Artificial Sequence   |     |
| <br><220><br><223> Synthetic  |     |
| <br><400> 3<br>cgccagctcc acctgctt  | 18  |
| <br><210> 4<br><211> 29<br><212> DNA<br><213> Artificial Sequence   |     |
| <br><220><br><223> Synthetic  |     |
| <br><400> 4<br>tcttcgagaa ctagtgggcc gacatttag  | 29  |
| <br><210> 5<br><211> 19<br><212> DNA<br><213> Artificial Sequence   |     |
| <br><220><br><223> Synthetic  |     |
| <br><400> 5<br>gaaggtgaag gtcggagtc   | 19  |
| <br><210> 6<br><211> 20   |     |

|       |                       |    |
|-------|-----------------------|----|
| <212> | DNA                   |    |
| <213> | Artificial Sequence   |    |
| <220> |                       |    |
| <223> | Synthetic             |    |
| <400> | 6                     |    |
|       | gaagatggtg atgggatttc | 20 |
| <210> | 7                     |    |
| <211> | 20                    |    |
| <212> | DNA                   |    |
| <213> | Artificial Sequence   |    |
| <220> |                       |    |
| <223> | Synthetic             |    |
| <400> | 7                     |    |
|       | caagcttccc gttctcagcc | 20 |
| <210> | 8                     |    |
| <211> | 18                    |    |
| <212> | DNA                   |    |
| <213> | Artificial Sequence   |    |
| <220> |                       |    |
| <223> | Synthetic             |    |
| <400> | 8                     |    |
|       | ccaccaccag cttcttgc   | 18 |
| <210> | 9                     |    |
| <211> | 18                    |    |
| <212> | DNA                   |    |
| <213> | Artificial Sequence   |    |
| <220> |                       |    |
| <223> | Synthetic             |    |
| <400> | 9                     |    |
|       | ccgtcgccca ccaccacc   | 18 |
| <210> | 10                    |    |
| <211> | 18                    |    |
| <212> | DNA                   |    |
| <213> | Artificial Sequence   |    |
| <220> |                       |    |
| <223> | Synthetic             |    |
| <400> | 10                    |    |
|       | gcacgtcttg ccacacgc   | 18 |
| <210> | 11                    |    |
| <211> | 18                    |    |
| <212> | DNA                   |    |
| <213> | Artificial Sequence   |    |

|             |                     |    |
|-------------|---------------------|----|
| <220>       |                     |    |
| <223>       | Synthetic           |    |
| <400>       | 11                  |    |
| actgaacacg  | atcagcag            | 18 |
| <210>       | 12                  |    |
| <211>       | 18                  |    |
| <212>       | DNA                 |    |
| <213>       | Artificial Sequence |    |
| <220>       |                     |    |
| <223>       | Synthetic           |    |
| <400>       | 12                  |    |
| ttactgaaca  | cgatcagc            | 18 |
| <210>       | 13                  |    |
| <211>       | 18                  |    |
| <212>       | DNA                 |    |
| <213>       | Artificial Sequence |    |
| <220>       |                     |    |
| <223>       | Synthetic           |    |
| <400>       | 13                  |    |
| ccttaactgaa | cacgatca            | 18 |
| <210>       | 14                  |    |
| <211>       | 18                  |    |
| <212>       | DNA                 |    |
| <213>       | Artificial Sequence |    |
| <220>       |                     |    |
| <223>       | Synthetic           |    |
| <400>       | 14                  |    |
| gtccttactg  | aacacgat            | 18 |
| <210>       | 15                  |    |
| <211>       | 18                  |    |
| <212>       | DNA                 |    |
| <213>       | Artificial Sequence |    |
| <220>       |                     |    |
| <223>       | Synthetic           |    |
| <400>       | 15                  |    |
| ctcgtcctta  | ctgaacac            | 18 |
| <210>       | 16                  |    |
| <211>       | 18                  |    |
| <212>       | DNA                 |    |
| <213>       | Artificial Sequence |    |
| <220>       |                     |    |
| <223>       | Synthetic           |    |

|            |                     |    |
|------------|---------------------|----|
| <400>      | 16                  |    |
| aactcgtcct | tactgaac            | 18 |
|            |                     |    |
| <210>      | 17                  |    |
| <211>      | 18                  |    |
| <212>      | DNA                 |    |
| <213>      | Artificial Sequence |    |
|            |                     |    |
| <220>      |                     |    |
| <223>      | Synthetic           |    |
|            |                     |    |
| <400>      | 17                  |    |
| catagttctc | gaagacgg            | 18 |
|            |                     |    |
| <210>      | 18                  |    |
| <211>      | 18                  |    |
| <212>      | DNA                 |    |
| <213>      | Artificial Sequence |    |
|            |                     |    |
| <220>      |                     |    |
| <223>      | Synthetic           |    |
|            |                     |    |
| <400>      | 18                  |    |
| tcggccacat | agttctcg            | 18 |
|            |                     |    |
| <210>      | 19                  |    |
| <211>      | 18                  |    |
| <212>      | DNA                 |    |
| <213>      | Artificial Sequence |    |
|            |                     |    |
| <220>      |                     |    |
| <223>      | Synthetic           |    |
|            |                     |    |
| <400>      | 19                  |    |
| ccgtccacct | caatgtcg            | 18 |
|            |                     |    |
| <210>      | 20                  |    |
| <211>      | 18                  |    |
| <212>      | DNA                 |    |
| <213>      | Artificial Sequence |    |
|            |                     |    |
| <220>      |                     |    |
| <223>      | Synthetic           |    |
|            |                     |    |
| <400>      | 20                  |    |
| aagcacatga | gaatgacg            | 18 |
|            |                     |    |
| <210>      | 21                  |    |
| <211>      | 18                  |    |
| <212>      | DNA                 |    |
| <213>      | Artificial Sequence |    |
|            |                     |    |
| <220>      |                     |    |
| <223>      | Synthetic           |    |
|            |                     |    |
| <400>      | 21                  |    |
| gagtccgggc | tgtccacc            | 18 |

|       |                     |          |
|-------|---------------------|----------|
| <210> | 22                  |          |
| <211> | 18                  |          |
| <212> | DNA                 |          |
| <213> | Artificial Sequence |          |
| <220> |                     |          |
| <223> | Synthetic           |          |
| <400> | 22                  |          |
|       | atgttctcca          | gcgagtc  |
|       |                     | 18       |
| <210> | 23                  |          |
| <211> | 18                  |          |
| <212> | DNA                 |          |
| <213> | Artificial Sequence |          |
| <220> |                     |          |
| <223> | Synthetic           |          |
| <400> | 23                  |          |
|       | gggatgttct          | ccagcgag |
|       |                     | 18       |
| <210> | 24                  |          |
| <211> | 18                  |          |
| <212> | DNA                 |          |
| <213> | Artificial Sequence |          |
| <220> |                     |          |
| <223> | Synthetic           |          |
| <400> | 24                  |          |
|       | gacatgctcg          | tcgctg   |
|       |                     | 18       |
| <210> | 25                  |          |
| <211> | 18                  |          |
| <212> | DNA                 |          |
| <213> | Artificial Sequence |          |
| <220> |                     |          |
| <223> | Synthetic           |          |
| <400> | 25                  |          |
|       | cggacatgct          | cgtcgctg |
|       |                     | 18       |
| <210> | 26                  |          |
| <211> | 18                  |          |
| <212> | DNA                 |          |
| <213> | Artificial Sequence |          |
| <220> |                     |          |
| <223> | Synthetic           |          |
| <400> | 26                  |          |
|       | tgtgcggaca          | tgctcg   |
|       |                     | 18       |
| <210> | 27                  |          |
| <211> | 18                  |          |
| <212> | DNA                 |          |

|            |                     |    |
|------------|---------------------|----|
| <213>      | Artificial Sequence |    |
| <220>      |                     |    |
| <223>      | Synthetic           |    |
| <400>      | 27                  |    |
| ctctgtgcgg | acatgctc            | 18 |
| <210>      | 28                  |    |
| <211>      | 18                  |    |
| <212>      | DNA                 |    |
| <213>      | Artificial Sequence |    |
| <220>      |                     |    |
| <223>      | Synthetic           |    |
| <400>      | 28                  |    |
| ccagctctgt | gcggacat            | 18 |
| <210>      | 29                  |    |
| <211>      | 18                  |    |
| <212>      | DNA                 |    |
| <213>      | Artificial Sequence |    |
| <220>      |                     |    |
| <223>      | Synthetic           |    |
| <400>      | 29                  |    |
| cgggccagct | ctgtgcgg            | 18 |
| <210>      | 30                  |    |
| <211>      | 18                  |    |
| <212>      | DNA                 |    |
| <213>      | Artificial Sequence |    |
| <220>      |                     |    |
| <223>      | Synthetic           |    |
| <400>      | 30                  |    |
| tgcggccag  | ctctgtgc            | 18 |
| <210>      | 31                  |    |
| <211>      | 18                  |    |
| <212>      | DNA                 |    |
| <213>      | Artificial Sequence |    |
| <220>      |                     |    |
| <223>      | Synthetic           |    |
| <400>      | 31                  |    |
| gttcctgctt | catgcggg            | 18 |
| <210>      | 32                  |    |
| <211>      | 18                  |    |
| <212>      | DNA                 |    |
| <213>      | Artificial Sequence |    |
| <220>      |                     |    |

|             |                     |    |
|-------------|---------------------|----|
| <223>       | Synthetic           |    |
| <400>       | 32                  |    |
| acgggttcct  | gcttcatg            | 18 |
| <210>       | 33                  |    |
| <211>       | 18                  |    |
| <212>       | DNA                 |    |
| <213>       | Artificial Sequence |    |
| <220>       |                     |    |
| <223>       | Synthetic           |    |
| <400>       | 33                  |    |
| gtagtcgtag  | gcttggat            | 18 |
| <210>       | 34                  |    |
| <211>       | 18                  |    |
| <212>       | DNA                 |    |
| <213>       | Artificial Sequence |    |
| <220>       |                     |    |
| <223>       | Synthetic           |    |
| <400>       | 34                  |    |
| cgaggttagtc | gtaggctt            | 18 |
| <210>       | 35                  |    |
| <211>       | 18                  |    |
| <212>       | DNA                 |    |
| <213>       | Artificial Sequence |    |
| <220>       |                     |    |
| <223>       | Synthetic           |    |
| <400>       | 35                  |    |
| gtcttggcag  | agcactcg            | 18 |
| <210>       | 36                  |    |
| <211>       | 18                  |    |
| <212>       | DNA                 |    |
| <213>       | Artificial Sequence |    |
| <220>       |                     |    |
| <223>       | Synthetic           |    |
| <400>       | 36                  |    |
| acctcgcgca  | cgccttcc            | 18 |
| <210>       | 37                  |    |
| <211>       | 18                  |    |
| <212>       | DNA                 |    |
| <213>       | Artificial Sequence |    |
| <220>       |                     |    |
| <223>       | Synthetic           |    |
| <400>       | 37                  |    |

agacctcgcg cacgcctt

18

<210> 38  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<400> 38  
cgaagaccc gcgacgc

18

<210> 39  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<400> 39  
ctcgaagacc tcgcgcac

18

<210> 40  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<400> 40  
gccgtctcga agacctcg

18

<210> 41  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<400> 41  
cgtggccgtc tcgaagac

18

<210> 42  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<400> 42  
gttctggag ccgttagcg

18

<210> 43  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic  
  
<400> 43  
gccgttctgg gagccgta 18  
  
<210> 44  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic  
  
<400> 44  
gatgcagccg ttctggga 18  
  
<210> 45  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic  
  
<400> 45  
gttcatgcag ccgttctg 18  
  
<210> 46  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic  
  
<400> 46  
cagcagttga tgcagccg 18  
  
<210> 47  
<211> 18  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic  
  
<400> 47  
agcaccttgc agcagttg 18